

Lesson 3

More Imperial Conversions

pints (pt), quarts (qt), gallons (gal),
teaspoon (tsp), tablespoon (Tbsp),
pounds (lb), ounces (oz)

A baby is born weighing 7 pounds and 8 ounces. The baby announcements in the newspaper said the baby weighed 7.5 lbs. Given this, how many ounces are in a pound?

Converting between ounces, pounds, and tons

$$\left\{ \begin{array}{l} 1 \text{ lb} = 16 \text{ oz} \\ 1 \text{ ton} = 2000 \text{ lbs} \end{array} \right.$$

Examples:

1. $5 \text{ lbs } 6 \text{ oz} = \underline{86} \text{ oz}$ 2. $4 \text{ tons } 82 \text{ lbs} = \underline{8082} \text{ lbs}$

3. $2 \text{ tons } 7 \text{ oz} = \underline{64007} \text{ oz}$ 4. $20 \text{ lbs } 94 \text{ oz} = \underline{\hspace{2cm}} \text{ oz}$

$\downarrow \times 2000 = 4000 \text{ lbs } \times 16 = 64000 \text{ oz}$

Convert each measure to ounces.

1. $12 \text{ lb } 7 \text{ oz} = \underline{\hspace{2cm}} \text{ oz}$

2. $7 \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$

3. $1 \text{ oz } 1 \text{ tons} = \underline{\hspace{2cm}} \text{ oz}$

4. $5 \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$

5. $2 \text{ tons} = \underline{\hspace{2cm}} \text{ oz}$

6. $1 \text{ oz } 14 \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$

7. $17 \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$

8. $11 \text{ oz } 56 \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$

9. $36 \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$

10. $1,735 \text{ lb } 7 \text{ oz} = \underline{\hspace{2cm}} \text{ oz}$

Convert each measure to pounds.

11. 11 tons = _____ lb

12. 15 lb 16 oz = _____ lb

13. 4 tons = _____ lb

14. 5 tons 7 lb = _____ lb

15. 2 tons 62 lb = _____ lb

16. 5 tons = _____ lb

Convert each measure to pounds and ounces.

17. 82 oz = _____ lb _____ oz

18. 1 tons 90 oz = _____ lb _____ oz

19. 185 oz = _____ lb _____ oz

20. 77 oz 369 lb = _____ lb _____ oz

21. 57 oz = _____ lb _____ oz

22. 122 lb 52 oz = _____ lb _____ oz

Converting between cups, pints, and quarts

$$\left\{ \begin{array}{l} 1 \text{ pint} = 2 \text{ cups} \\ 1 \text{ quart} = 2 \text{ pints} \\ 1 \text{ gallon} = 4 \text{ quarts} \end{array} \right\}$$

Examples:

1. 3 gal 2 pt = 52 cups 2. 4 pt 82 cups = _____ qt

3. 2 gal 7 qt = 30 pt 4. 20 gal 27 pt = _____ qt _____ pt

#1 $3 \times 4 = 12 \text{ qt} \times 2 = 24 \text{ pt} \times 2 = 48 \text{ cups}$

Convert each measure to cups.

1. 4 qt = _____ cups

2. 1 cups 2 pt = _____ cups

3. 3 qt = _____ cups

4. 4 qt 1 cups = _____ cups

5. 11 gal = _____ cups

6. 4 gal 1 pt = _____ cups

Convert each measure to pints.

7. 2 cups 2 pt = _____ pt

8. 9 gal = _____ pt

9. 2 qt = _____ pt

10. 2 gal 2 qt = _____ pt

Convert each measure to quarts.

11. 9 gal 4 cups = _____ qt

12. 6 gal = _____ qt

13. 2 pt 4 cups = _____ qt

14. 8 gal = _____ qt

Convert each measure to quarts and pints.

15. 1 pt 12 gal = _____ qt _____ pt

16. 1 pt 12 cups = _____ qt _____ pt

17. 12 cups 1 pt = _____ qt _____ pt

18. 6 gal 1 pt = _____ qt _____ pt

Converting between Teaspoons and Tablespoons

1 tbsp = 3 tsp

1. 17 ^{x3} tbsp = 51 tsp 2. 36 tbsp = _____ tsp
3. 4 tsp = 1 tbsp 1 tsp 4. 51 tbsp = _____ tsp
5. 47 tbsp = _____ tsp 6. 33 tbsp = _____ tsp
7. 57 tsp = _____ tbsp 8. 68 tbsp = _____ tsp

9. 93 tbsp = tsp 10. 98 tsp = tbsp

11. 22 tbsp = tsp 12. 88 tbsp = tsp

13. 74 tsp = tbsp 14. 80 tbsp = tsp

15. 64 tbsp = tsp 16. 26 tsp = tbsp

17. 59 tbsp = tsp 18. 45 tsp = tbsp

19. 29 tsp = tbsp 20. 21 tsp = tbsp